



2015 Statewide STEM Summit

“STEM: Opportunity through Diversity”

Community Choice Credit Union Convention Center
833 5th Avenue, Des Moines, Iowa

Sunday, March 29, 2015

2015 Director's Informal Reception

7 p.m. to 9 p.m.

Buzzard Billy's, 615 East 3rd Street (2 blocks south of the Quality Inn & Suites Event Center)

Monday, March 30, 2015

8:30 to 9:15 a.m. Foyer/Ballroom, Level 4	Registration – Continental Breakfast and Networking
9:15 to 9:30 a.m. Ballroom, Level 4	Welcome <div> <div> The Honorable Kim Reynolds Lieutenant Governor of the State of Iowa <i>Co-Chair, Governor's STEM Advisory Council</i> </div> <div> Mary Andringa, President and CEO Vermeer Corporation <i>Co-Chair, Governor's STEM Advisory Council</i> </div> </div>
9:30 to 9:35 a.m. Ballroom, Level 4	Peek into a STEM Classroom – Sioux Center High School
9:35 to 10:10 a.m. Ballroom, Level 4	Opening Address Kwizera Imani, Senior at Des Moines North High School, enrolling at Iowa State University in the Fall of 2015 and majoring in Aerospace Engineering.
10:10 to 10:20 a.m. Ballroom, Level 4	Peek into a STEM Classroom – Davenport West High School Transition to Breakout Sessions
Morning Sessions – 10:20 to 11:20 a.m., Level 3	
Room 313	Scale-Up: What's the impact? How to get involved? How to improve it? <u>Facilitator:</u> Sarah Derry, SC Regional STEM Manager <u>Description:</u> Provider Panel or Roundtable (to be determined)

Room 314	<p>Agriculture Science for Biology Graduation Credit – Can it work?</p> <p><u>Facilitator:</u> Rachel Hurley, Governmental Affairs Manager, Monsanto</p> <p><u>Description:</u></p>
Room 315	<p>Iowa's STEM Teaching Endorsement Partnership – higher ed. plan</p> <p><u>Facilitator:</u> Jeff Weld, Executive Director, Iowa Governor's STEM Advisory Council</p> <p><u>Description:</u> Last year the Iowa Board of Educational Examiners approved a series of new STEM endorsements for teachers. Since then, two campuses have launched the endorsement (Drake University and Grand View University), and many dozens more are interested – public universities, independent colleges, and community colleges. They have all committed to a consortium model informally underway while awaiting the possibility of funding from the NSF. Model to be shared.</p>
Room 316	<p>Computer Science for Iowa – How to Get K-12 Students into Computer Science?</p> <p><u>Facilitators:</u> Mark Gruwell, President and CEO, LearnAcre, and Ann Watts, Program Manager, IT Academy, Governor's STEM Advisory Council</p> <p><u>Description:</u></p>
Room 317	<p>Out-of-School Active Learning Community - Quality STEM for Active Learning</p> <p><u>Facilitators:</u> STEM Active Learning Community Partners Working Group</p> <p><u>Description:</u> Through a project with the Noyce Foundation and the National Networks of Statewide Afterschool Networks, the STEM Active Learning Community Partners is utilizing the Dimensions of Success (DoS) STEM Program Planning Guide to provide a common definition of active learning STEM and improve the quality of STEM educational experiences. Learn more about this tool and how it can support STEM active learning for all youth.</p>
Room 318	<p>Business Engagement in STEM – Who's involved? What could be done better?</p> <p><u>Facilitator:</u> Carrie Rankin, Assistant Director for Development, Governor's STEM Advisory Council</p> <p><u>Description:</u> This session will offer an overview of the STEM business engagement toolkit and how it is being used across Iowa, featuring a panel of educators, economic developers and business/industry leaders. The panel will share actual examples of how education and business professionals are coming together in their communities and schools to work more closely to further STEM education.</p>
Room 319	<p>STEM-Focused Schools: Redesigning STEM Learning Environments (panel)</p> <p><u>Moderator:</u> TBD</p> <p><u>Description:</u> This session will feature a panel of education leaders who are activating Iowa's first STEM Active Learning Classrooms. Gain insight into room design, facility use, teacher training and integrated STEM curriculum which will help to shape the future for Iowa's STEM-focused classrooms and schools.</p>
Room 320	<p>STEM Volunteer Service – What opportunities are there? How to get involved?</p> <p><u>Facilitator:</u> Jeff Beneke, NE Regional STEM Manager; Mary Sheka, Volunteer Iowa; X, Million Women Mentors</p>

	<u>Description:</u>
Transition to Lunch, Level 4 (Ballroom)	
11:30 to 12:30 p.m. Ballroom, Level 4	<p>The Honorable Terry E. Branstad, Governor of Iowa</p> <p>STEM Education Award for Inspired Teaching Recognition Introduced by Dr. Chris Nelson, President and CEO of Kemin Industries Sponsored by Kemin Industries</p> <p>STEM in Iowa's Re-envisioned Economic Development Roadmap (2014 Battelle Report) Introduced by Kathryn M. Kunert, Vice President, Business and Community Development, MidAmerican Energy Company.</p> <p>Seal of Approval Announcement (Tentative)</p>
12:30 to 12:45 p.m. Ballroom, Level 4	<p>Peek into a STEM Classroom – Hoover High School and Mt. Pleasant Middle School</p> <p>Transition to Breakout Sessions</p>
Regional STEM 12:45 to 1:40 p.m., Level 3 Learn what is happening regionally, how to connect, and offer your advice or services.	
Room 313	<p>Northwest STEM Region <u>Facilitator:</u> Manager, Board Member(s)</p>
Room 314	<p>North Central STEM Region <u>Facilitator:</u> Manager, Board Member(s)</p>
Room 315	<p>Northeast STEM Region <u>Facilitator:</u> Manager, Board Member(s)</p>
Room 316	<p>Southwest STEM Region <u>Facilitator:</u> Manager, Board Member(s)</p>
Room 317	<p>South Central STEM Region <u>Facilitator:</u> Manager, Board Member(s)</p>
Room 318	<p>Southeast STEM Region <u>Facilitator:</u> Manager, Board Member(s)</p>
Afternoon Sessions – 1:45 to 2:45 p.m., Level 3	
Room 313	<p>“Seal of Approval” for Non-Council STEM – What is it? How to apply? How can this be better?</p> <p><u>Facilitator:</u> Jordan Lampe, Communications Director, Dwolla</p> <p><u>Description:</u></p>

<p>Room 314</p>	<p>Iowa STEM CAPS – Building bridges between school and industry (panel) – Moderator: Kristine Bullock, SE Regional STEM Manager</p> <p><u>Description:</u> This session will feature a panel of school and business leaders establishing innovative models of Iowa STEM Centers for Advanced Professional Studies (CAPS). Participants will gain insight into how to develop and foster deeper relationships with industry partners, how to develop a rigorous and relevant STEM curriculum aligned to industry needs and how CAPS can align to current and future district goals.</p>
<p>Room 315</p>	<p>“Broadband Internet for All” – Next Steps – How close is Iowa to this goal? What are the roadblocks? How you can help?</p> <p><u>Facilitator:</u> John Carver, Superintendent, Howard-Winneshiek Community School District</p> <p><u>Description:</u> As part of the Connect Every Iowan Initiative, Governor Branstad charged Iowa’s STEM Advisory Council’s Broadband Committee with the creation of a broadband expansion plan for Iowa, with an initial timetable that included delivery of recommended policy. Legislation was introduced in the 2014 session of the Iowa legislature and is once more being introduced in the 2015 session. This will be latest news.</p>
<p>Room 316</p>	<p>Real-World Teacher Externships: What are they? How to get involved? How it could Improve? (panel) –</p> <p><u>Moderator:</u> Meghan Reynolds, Real World Externships Coordinator and Secondary Biology Teacher, Cedar Falls High School</p> <p><u>Description:</u> Since 2009 teachers have been enjoying authentic summer work experiences in business and industry as well as state agencies such as the DNR and Hygienic Labs. Teachers are compensated and mentored through the experience, returning to classrooms with fresh ideas that link learning to the community. Panelists will share their experiences and how to get involved. Input will be welcome on how this program, declared by more than 90% of participants as the best professional development they’ve ever had, can be improved.</p>
<p>Room 317</p>	<p>STEM Awareness for Iowa – How we get the story out. What could be done better?</p> <p><u>Facilitators:</u> Angel Mendez, Communications Manager, Governor’s STEM Advisory Council, and Dawn Buzynski, Executive Director of Public Relations, Strategic America</p> <p><u>Description:</u> This session will highlight the efforts of the Governor’s STEM Advisory Council in partnership with Strategic America regarding the statewide STEM awareness campaign. The session will discuss the successes and futures plans for the campaign. Audience input will be gathered for possible future usage.</p>
<p>Room 318</p>	<p>STEM Support of the Arts – What Ideas are circulating? How can STEM do better?</p> <p><u>Facilitator:</u> Steven Triplett, Client Relations Manager – STEM Initiatives, ACT®, Inc.</p> <p><u>Panelists:</u> David Barajas, CEO of the Marshalltown Regional Partnership Tim Bower, Project Manager, John Deere and SE Iowa STEM Board Chair Sarah Derry, South Central Regional STEM Manager, Governor’s STEM Council Leon Kuehner, Executive Director, Iowa Alliance for Arts Education Val Ruff , Executive Director, Marshall County Arts and Culture Alliance</p> <p><u>Description:</u> Members of the working group: STEM Support of Arts and Culture, will be reviewing working group discussion topics, potential areas of emphasis, and seeking input on how best to support multiple areas of Arts and Culture through STEM. After an initial overview from the panel members, audience input will be encouraged.</p>

Room 319	<p>State STEM Evaluation – Iowa, Massachusetts, North Carolina</p> <p><u>Moderator:</u> Erin Heiden, Senior Research Scientist, Center for Social and Behavioral Research, University of Northern Iowa</p> <p><u>Description:</u></p>		
Transition to Panel & Closing – 2:45 to 4 p.m., Level 4 (Ballroom)			
3:00—3:50 p.m. Ballroom, Level 4	<p>Promoting STEM Careers from a School Counselor’s Point-of-View (panel) –</p> <p><u>Moderator:</u> Rob Denson, President, Des Moines Area Community College, and Bill Ruud, President, University of Northern Iowa</p> <p><i>Parting gift distributed</i></p>		
3:50—4:00 p.m. Ballroom, Level 4	<p>Closing Remarks</p> <table> <tr> <td> <p>The Honorable Kim Reynolds Lieutenant Governor of the State of Iowa <i>Co-Chair, Governor’s STEM Advisory Council</i></p> </td> <td> <p>Mary Andringa, President and CEO Vermeer Corporation <i>Co-Chair, Governor’s STEM Advisory Council</i></p> </td> </tr> </table>	<p>The Honorable Kim Reynolds Lieutenant Governor of the State of Iowa <i>Co-Chair, Governor’s STEM Advisory Council</i></p>	<p>Mary Andringa, President and CEO Vermeer Corporation <i>Co-Chair, Governor’s STEM Advisory Council</i></p>
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